## CLAIMS

1. A method of image dithering process for detecting photo and character, comprising the steps of:

determining a background color from a master copy;

separating content of said master copy into photo and character with said background color as criterion;

processing said photo with halftone processing;

processing said character with line art processing; and

combining said processed photo and processed character as a whole.

2. The method of claim1, further comprising the steps of:

condensing said master copy based on said background color;

cutting transversely said condensed area;

cutting vertically said transversely cut area for making said original area being divided into several individual area;

choosing a second background color from said individual area;

marking said individual area with said photo as a photo area;

marking said individual area with said character as a character area; and

utilizing said second background color to condense said individual area and repeating said condensing step when said photo area and said character area of said individual area is unable to be identified.

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3. The method of claim 1, said halftone processing is a dithering process.

4. The method of claim 3, the equation of said dithering process is the sampling mode (mark 50) shown in Figure 5 times one sixty-eighth.

5. A method of image dithering process for detecting photo and character, comprising the steps of:

   a. choosing a first background color from a master copy;

   b. separating the content of the master copy into images and text with the first background color as the criterion;

   c. condensing the master copy based on the first background color;

   d. cutting transversely the condensed master copy based on the first background color;

   e. cutting vertically the transversely cut master copy based on the first background color; thus, there will be several individual areas;

   f. choosing a second background color from the individual areas;

   g. identifying images and text based on the second background color;

   h. marking the individual areas with images as an image area;

   i. marking the individual areas with text as a text area;

   j. if the individual areas cannot be identified, replacing the first background color with the second background color, condensing the unidentifiable

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individual areas based on the second background color, and then repeating steps d to j;

k. processing the images with halftone processing;

l. processing the text with link art processing; and

m. outputting the processed images and processed text as a whole.

6. The method of claim 5, the halftone processing is a dithering process.

7. The method of claim 6, the equation of the dithering process is the sampling mode shown in the figure 5 (marked as 50) times one sixty-eighth.